
Product Data Sheet

Product Name: Ampyrone (4-Aminoantipyrine)

Cat. No.: GC33484

Chemical Properties

Cas. No. 83-07-8

SMILES O=C1N(C2=CC=CC=C2)N(C)C(C)=C1NFormula $C_{11}H_{13}N_3O$

M.Wt 203.24

Solubility DMSO : ≥ 50 mg/mL (246.01 mM); Water : 50 mg/mL (246.01 mM)

Storage Store at RT

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

4-Aminoantipyrine(Ampyrone) is a metabolite of aminopyrine with analgesic, anti-inflammatory, and antipyretic properties. It is used as a reagent for biochemical reactions producing peroxides or phenols.

The level of glutathione(GSH) in single erythrocytes is impacted slightly at low AAP(4-aminoantipyrine) concentrations probably due to the protection of glutathione reductase. When AAP concentration further increases, AAP has a significant influence on GSH[2].

4-aminoantipyrine (4-AA) is not genotoxic and mutagenic in vivo, it can interfere with DNA damaging agents biological activities and may reduce the effectiveness of DNA damage-based chemotherapy[3].

[1] Vinagre AM, et al. Braz J Med Biol Res. 2016, 49(3). [2] Teng Y, et al. J Hazard Mater. 2011, 192(3):1766-1771. [3] Berno CR, et al. Mutat Res Genet Toxicol Environ Mutagen. 2016, 805:19-24.

Caution: Product has not been fully validated for medical applications. For research use only.

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